

98 J. HAYDOCK

99

2000

2001

MELANERPES FORMICIVORUS

CHONGO

HNHR

9 MAY

14:30 - ♀ Bird in hole (Buckeye annex). Can hear small babies (2-3d old).

1999

20 April

9:30 Set ambush* at low hole (facing buckeye) in buckeye annex side of chongo's territory. There are at least 2 unbanded birds here. *Using pole w/ screen.

21 April

5:00 - Caught - 1 ♂ unbanded # 3 065

24 MAY

7:45 - No bird seen in a hole; 2 birds on chongo side near granary tree.

2000

19 MARCH

11:30 - No acorns in granary. No evidence of a nest.

23 April

11:30 - About 6 birds around, maybe more, in power struggle. Several unbanded birds seen, but I do not have my binoculars/scope to check. ID's

2001

~ 15 MARCH

12:00 - Checked granary - a few acorns. No birds seen.

17 MAY

8:00 - Observed for sign of nesting. Birds seen in granary several times; however the ♀ also flew across the cañon toward buckeye annex.

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2000 HAYDOCK

2001

MELANERPES FORMICIVORUS

CAVITY

HNHR

19 MARCH

11:50 - Several birds in traditional nest tree. Some acorns remaining in granary tree by Ranch house. No evidence of a nest.

5 April

9:00 - 3 birds seen in traditional nest tree. No bird seen in a hole.

11 April

10:05 - Bird in hole - New hole in broken limb (with last years nest hole). Faces towards office.

13:35 Walt open hole. Finds 4 eggs - ~~fresh~~ Incubated

① 25.0 x 21.0 ② 25.0 x 20.4 Several days into incubation. Tag #298 Blue oak. ENE (75°)

Angle: 75° Height: 33 ft. Circumference: 7 hands (Walt)

Same limb as hole/nest from last year. That broke and fell to ground - Hole in broken part of limb.

19 April

10:00 - 4 babies. 1-2 days old.

8 MAY

10:00 - Banded and bled 3 babies with Walt. ID #, 3163 - 3165

2001

10 JUNE

15:10 - checked for hatching. 3 babies - all healthy and may have hatched yesterday. 1 egg nearly hatched. 1 unhatched egg.

?
Group
Central
Canyon

99
2000

HAYDOCK

MELANERPES FORMICIVORUS

1500

HASTINGS

31 MAY 12:00 - 4 babies largest about 10g. 1 egg remaining.
Looks like it could hatch.

19 June 10:20 - Banded and bled 2 babies. Still plenty
of acorns remaining.

2000

5 April 9:20 - Two birds in traditional nest tree. Lots of
acorns remaining - granary ~ 90-100% full. No
evidence of a nest.

11 April 10:25 - ~~Bird in traditional nest hole~~. No bird seen
in a hole

07 JUNE 12:40 - Banded 4 nestlings with Walt.
Lots of acorns remaining in granary.

2002

12 July 7:00 - Checked for nesting. No birds seen
in a hole, but see 1800 for new holes
in Creek (below 1800, but not far from 1500).
Birds seen near these holes - could be 1500 or
1800 birds.

24 July 7:55 - No birds seen in granary tree - ~~Heard birds~~
~~partway up bay stack. Essentially no acorns~~
remaining in granary (~~may be 2~~).

4 Aug 10:35 - No birds seen in a cavity.

1. The first part of the book is devoted to a general
discussion of the principles of the theory of the

99

HAYDOCK

Melanerpes formicivorus

1800

HASTINGS

6 April

9:45 - No birds seen. No evidence of a nest.

25 April

9:30 - Opened new hole in traditional nest tree.

Birds seen in this hole on several occasions. But no eggs found. Two ♀ breeders, too possible that they are egg tossing.

29 April

10:30 - Walt checked hole again - still nothing.

1 ~~30 April~~

MAY

5:30 - Observations ~~to see~~ started to see if they are egg tossing.

6:30 - Still no bird seen to go near hole - Are they using another hole - perhaps last year's nest hole? (Can't see well enough from where I am sitting to know for sure.)

6:40 - Bird leaves hole - I missed him/her going in because I was observing another ♀ on another branch.

7:30 - Two birds almost went in hole after 6:40 bird left. The first was ♀ 2940 - She went to nest hole < 1 min after 6:40 bird left hole. About 20 min later. BM 2680 - Came to hole but also left before entering hole.

7:40 Ended observations - checked cavity. No eggs found.

2 MAY

5:34 - Egg tossing observations started.

6:30 - 2 ♀'s (2940 & 2939?) enter hole* followed by.

BM 2898 - Stay in hole about 15 min - All leave within about 1 min of each other (♀, ♂, ♀).

7:15 - End obs to check nest* (traditional hole)

99 HAYDOCK

Melanerpes formicivorus

1800

HASTINGS

2 MAY 7:45 - Check nest - 1 fresh egg !!
13:10 - checked nest again - Egg gone

3 MAY 5:40 - Started egg tossing observation.
6:10 - ♀ 2940 (? saw B/M) entered hole
6:20 - ♀ leaves.
6:45 - 2680 ♂ enters hole
7:05 - ♂ leaves.
7:30 - Check nest. - 1 egg.
7:55 - Start obs for tossing.
8:14 - ♂? enters hole - removes egg!!
8:15 - End obs.

4 MAY 5:45 - Start observations.
7:35 - End observations. 2898 entered hole for
10 sec - 2 min, 3 times and came to hole a couple
of other. No ♀ entered hole. Checked for eggs
None found.

5 MAY 5:40 - Start observations
6:54 - ♀ 2939 entered hole
6:56 - ♀? enters hole - so both B's in hole.
7:04 - ♀ leaves
7:10 - ♀ leaves
7:20 ♂ 2898 enters
7:22 ♂ 2899 leaves
7:32 - ♂(?) enters; removes egg
I think this is ♂ 2680

7 MAY 11:20 - checked nest - No eggs

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99 HAYDOCK

2000

MELANERPES FORMICIVORUS

1800

HASTINGS

17 MAY

9:15 - 6 eggs now; 3 look about normal and incubated; 1 is (almost?) a runt egg; 2 look either fairly fresh or infertile.

18 MAY

11:30 - 6 eggs (as above) ① 21.8 x 18.2 (runt?)

② 24.6 x 19.4 (looks fresh/infertile)

③ 24.6 x 19.7 (looks incubated)

28 MAY

10:40 - 3 babies about 5 days old 1 is relatively small but looks OK. 2 eggs - They look like they could hatch??

31 May

13:15 - 3 babies, no eggs

9 June

13:30 - Banded 3 babies. There are a few acorns remaining.

2000

5 April

9:25 - Saw one bird near traditional nest tree granary. No evidence of a nest. Lots of acorns remaining.

11 April

10:25 - Bird in traditional nest hole.

12 April

13:40 - 6 eggs - fresh ① 25.35 x 20.05

23 April

13:40 4 babies, 1 egg pipped; one egg mostly eaten (5mm diameter hole) remains of partially developed embryo inside.

10 JUNE

11:55 - 7 eggs. 4 undeveloped or infertile, 3 mid-incubation. 2 of the 4 undeveloped dented.

Measured 2 of the developed eggs ① 23.2 x 19.1

② 24.8 x 20.6 and one undeveloped ③ 23.7 x 19.5

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www.ck12.org

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2000 HAYDOCK

2001

2002

MELANERPES FORMICIVORUS

1800

HASTINGS

19 JUNE 11:00 - 3 babies that are 3-4 days old. No eggs remaining.

2001

21 MAY 11:30 - Checked nest for hatching - Found 2 chicks about 4 days old. 5 eggs - some of which may be fertile.

7:05 - Removed 4 eggs - (1 removed by group member during watch - see Lance's notes) Returned to lab to check to see if any had an embryo - all infertile.

2nd nest

8 July 15:30 - checked 2nd nest for hatching - Found 2 chicks about 4 days old. No eggs remaining in nest.

3rd nest

2002

23 MAY - 15:00 - Checked nest for status.

4 eggs - Early - mid incubation.

① 24.0 x 19.7 ② 23.5 x 19.3

2 June

13:00 - checked nest for hatching.

3 nestlings. 2 of them about 2 days old; The 3rd only about 1 day old (May not make it to fledging). 1 egg remaining (looks to be infertile)

12 July

7:05 - Checked for 2nd nesting attempt. No bird seen in a hole. No acorns (maybe very few) remaining Found very new hole - in blue oak along creek below 1800 - holes face up stream

98 HAYDOCK

MELANERPES FORMICIVORUS

HAY-BLOM

HNHR

15 MAY

10:50 - No birds seen in a hole.

21 MAY

11:30 - Bird in hole. 3 eggs - fresh (cool) so not yet under incubation. $\text{① } 26.2 \times 19.5$
Check again for clutch size.

23 MAY

12:00 - Bird in hole 4 eggs, so last egg date is

23 MAY.

4 JUNE

12:10 - 4 babies, so they all hatched. Largest one 10g. (Hatched 2 June).

1999

6 April

10:15 - No birds seen No evidence of a nest

26 MAY

8:43 - No evidence of a nest - no birds on a hide
Observed from 8:45 - 9:15. Several birds seen in last years nest tree (V. Oak on NE side of territory).

28 June

7:05 - Some acorns remaining. Still no evidence of a nest.

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2000 HAYDOCK
2001

MELANERPES FORMICIVORUS

HAY-BLOW

HNHR

20 March 15:00 - Saw 1 bird (below fence, central part of terr.)
Lots of acorns remaining in main granary.

11 April 11:01 - Mating guarding? No bird seen in a hole.

2001

16 May 19:15 - Roost watch. Several birds roosted in
Valley Oak located above fence/huge poison oak
patch. Up-hill side of tree - I was unable
to find the cavity.

17 May 17:10 - Looked for roost cavity. The only possibility
on the upper side of tree is a knot hole located
in the central part of the tree on a small branch.

6 July 9:00 - Set ambush to catch unbanded ♀.

7 July 9:30 - Ambush failed (Knot got caught in bark,
preventing me from pulling completely)

9 July 8:00 - Another attempt to catch the unbanded
female.

11 July 8:00 - At long last, after climbing the tree 7 times
so far, I caught the unbanded female breeder.
Also banded the four nestlings that were about
18 days old.



98 HAYDOCK

MELANERPES FORMICIVORUS

LOWER HAYSTACK

HNHR

15 MAY

10:40 - 2 ♂s in hole (traditional nest hole).

4 eggs - late incubation. (1) 25.05 x 19.25.

21 MAY

12:00 - 3 babies 3-4d old. 1 infertile egg.
plenty of acorns remaining.

26 MAY

15:00 - Transplanted the 3 babies - all healthy
to SHIL.

6 July

17:00 - 3 babies (2-3d old) 1 egg - prob will
not hatch. (1) 25.35 x 20.5.

9 July

16:45 - 3 babies; 1 egg (removed)

Took blood and placed hatching band on
each baby.

16 July

8:15 - Added baby from aviary to nest.
Placed one hatching band Black-orange on
left foot.

1999

6 April

10:00 - No birds seen; no evidence of a nest.

2 May

13:10 - Check traditional roost/nest cavity - No eggs found.

18 May

9:50 - Checked nest again (to see if hatched; Walt
checked and found eggs recently). No hatching
birds yet! 5 eggs - all look OK, except 1 is
a runt(?) size egg.

20 MAY

14:30 - 4 babies now; no eggs remaining
largest baby 10g.

2000 HAYDOCK

2001

2002

MELANERPES FORMICIVORUS

LOWER HAYSTACK

HNHR

20 MARCH 15:05 - Huge amount of acorns (~100% full + lots of holes in traditional resting tree). No birds seen; no evidence of a nest.

5 April 9:50 - No birds seen. checked cavity - empty.

11 April 10:50 No birds seen.

24 MAY 1:50 - Banded 5 healthy happy nestlings with Walt.

2001

6 July 9:00 - Covered and sealed hole on side of traditional roost hole. Mouse nest started in this cavity - removed contents.
9:30 - Found new nest in tree near saddle. New hole, located in blue oak on side of hill. Hole faces old nest tree/granary. 4 babies about 10 days old.

2002

12 July 12:10 - Banded 2 healthy nestlings.
Plenty of acorns remaining

24 July 8:20 - Checked granary tree and trees to south. No indication of another nest.

98 HAYDOCK
99
2000

MELANERPES FORMICIVORUS

BLOM-ONE

HNHR

3 MAY

15:20 - 3 birds seen, but none seen in a hole.

Plenty of acorns remaining. 2 starlings ~~nesting~~
in granary tree.

JUNE 12

12:30 - Nest failed. Nothing left.

1999

28 June

6:30 - No ~~eggs~~^{acorns} remaining. No evidence of a nest.

2000

2 MARCH

13:50 Huge numbers of acorns remaining.

No birds seen; No evidence of a nest.

24 MAY

12:35 - Bird in hole.. Walt checked nest,

Found 1 egg - fresh. (1) 25.4 x 19.3. Marked it.
number "1".

26 June

14:30 - Banded the 3 nestlings with Walt

Plenty of acorns remaining in granary.

98 HAYDOCK

MELANERPES FORMICIVORUS

BL0M3

LINHR

3 MAY

15:30 - 5 eggs, incubated 4-5d, $\text{D } 27.2 \times 19.7$
Bird(?) on nest when I arrived. Same nest
hole as last year. I had to open it a bit
more so I could reach the bottom.

2 JUNE

11:20 - Adult in hole. Same hole as first
nest.

3 JUNE

15:20 - 5 eggs. Mid Incubation $\text{D } 26.3 \times 18.4$

9 JUNE

11:30 - 4 babies 1 egg (looks good, about to hatch?)
Largest baby only 6g. So they must hatched
this morning or last night.

- No notes for 1999

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99
2000

MELANERPES FORMICIVORUS

GAZEBO

HNHR

6 MAY

12:10 - 7 eggs 3 or possible 4 not developing.
Bird on nest.

1 JUNE

14:30 - Banded 3 healthy babies.

10 July

12:50 - Plenty of acorns remaining. No evidence of a 2nd nest.

1999

6 April

10:30 - No birds seen, No evidence of a nest

28 June

7:00 - Plenty of acorns remaining

2000

20 March

14:50 - Huge amount of acorns remaining; no evidence of a nest.

26 April

8:45 - 3 hatched today, one more hatching (can hear nestling). 2 infertile eggs (removed)

4 July

13:00 - Banded the 3 nestlings with Walt.

98 HAYDOCK

MELANERPES FORMICIVORUS

LOS-ARBOLITOS

HNHR

MAY 6 12:53 - 3 eggs, well incubated; bird on nest.

MAY 11 11:20 - 3 eggs. All still look good. Some acorns remaining in granary.

MAY

JUNE 1 14:00 - Banded 3 babies with W.H.

July 10 12:50 - Some acorns remaining. No evidence of a nest.

1999

6 April 10:30 - No birds seen (one heard); No evidence of a nest.

18 MAY 10:45 - 3 eggs - Nobody hatching. warm and OK looking.

20 MAY 14:00 - Still 3 eggs. warm; bird in hole when I arrived

28 MAY 9:00 - 2 babies - about 7 days old. No eggs remaining.

2000 HAYDOCK

2001

MELANERPES FORMICIVORUS

LOS ARBOLITOS

HNT/R

20 MARCH

14:30 - 4 birds seen in granary; lots of acorns; no sign of nesting

26 April

9:00 - 4 eggs - bird (♂) incubating when I arrived.

2001

28 MAY

19:30 - Roost watch - bird in hole when I arrived. Left cavity. - I did not see another bird go to the cavity.

29 MAY

13:30 - checked cavity - empty. - Possible that nestlings died last night and were removed this morning; however this seems unlikely since they were ~14 days old and there were at least 6 ~~total~~ (assuming none died after hatch check - see Walt's notes). Perhaps nest had failed at an earlier date? But why was a bird in the hole when I arrived?

10 JUNE

15:40 - check new nest that Walt opened in granary tree. - Empty. Birds left granary tree when I arrived.

29 June

10:00 - Took blood from hatchling that hatched in incubator. Returned hatchling and 2 eggs to nest. Took blood from 2 hatchlings at nest #1-3

7 July

14:00 - Checked nest - 5 babies now - 4 healthy; 1 very emaciated. (about 1/3 the weight of the others). Gave each healthy bird a hatching band. Also 2 eggs. with ~1 week old, dead embryos. took blood/tissue samples.

98 HAYDOCK
99
2000

MELANERPES FORMICIVORUS

CV-GRANDE

LINHZ

6 MAY 12:20 - Some acorns in granary (The logs we placed in one of their trees). No birds seen in a hole.

15 MAY 11:35 - 12:00 - Observed for signs of nesting. Nothing suggesting nesting seen. No birds seen.

10 July 12:40 - A few acorns in logs placed in nest tree. No evidence of nesting.

1999

12 JUNE 8:30 - Set to catch unbanded birds feeding.

See: $\frac{1}{\text{missing ID-blue-white (W)}} = 2295$

10:30 - End obs. - 2295 fed one - no other birds seen.

2000

20 MARCH 14:30 - ~~Saw 4 birds in granary tree; lots of~~ some acorns; no sign of a nest, but group staying together. In logs placed in nest tree, plus a fair number of new holes in tree.

97 HAYDOCK

98

2000

MELANERPES FORMICIVORUS

CV PARQUITO

HNHR

7 April 15:45 - Checked nest - 7 fresh, but under incubation eggs.

21 April 9:30 - Arrive to check babies - Bird in hole - hear babies begging for food, so I will not check. Kurt and Keith set-up aerial blind for egg-tossing.

5 MAY 14:30 - Banded and bled 5 babies - all healthy #2763-2767

1998

8 MAY 12:40 - No birds seen in a hole.

15 MAY 11:15 - Saw one bird in last years nest tree. (not in a hole). A Starling is using last years nest hole.

2000

29 MAY 14:20 - Walt checked ~~last~~ nest hole used in 1997. Put TAB (new) on hole #281. Two birds (AWs) ~~to~~ flew out of hole. Hole is in good shape, unused and empty.

98 J. HAYDOCK
99
2000

MELANERPES FORMICIVORUS

MURF

HNIHR

15 MAY 11:30 - Heard several birds (WACA); saw 2 individuals.
No bird seen in a hole. No acorns remaining in granary

25 JUNE 12:00-12:35 No bird seen in a hole ~~ever~~. I observed for nesting activity for ~30 min but did not see any suggestion they have a nest.

1 SEPT 5:30 - Ambush - caught # _____

1999

No notes

2000

5 April 10:39 No birds seen. Some acorns in granary - About $\frac{1}{2}$ full.

7 April 18:30 - 19:00 Roost watch. At least 1 bird used cavity in tree below granary. Hole that faces downward in limb that points toward NGR

10 April 10:25 - Walt checked nest. Finds 5 eggs (fresh)
① 26.7 x 20.4 ② 26.2 x 20.3. Set ambush to catch NOBA BF

30 April 11:00 - 13:40 - Attempted to catch NOBA ♀ - failed (ambush fell, when bird was on top of branch)

1 MAY 12:30 - Caught NOBA BF

24 July 13:20 - Banded the 3 nestlings in their 2nd nest with ult.

99 HAYDOCK
2000

MELANERPES FORMICIVORUS

CV1

HASTINGS

21 April

14:44 - Walt opens new hole in granary tree. About 30 ft up. Dead limb that curves down ~~on~~ CV2 side of tree. No nest! - Bird had been seen looking out twice yesterday and flew from branch (in hole?) when we came with ladder tonight. Look like they may nest here. good hole.

19 MAY

10:50 - checked nest hole Walt open on 21 Apr. - still empty

2000

20 March

14:15 - Bird in hole - same ^{hole} as last year. (never had nest). Some acorns remaining. checked cavity several days later - Empty.

5 April

10:50 - No birds seen. Nobody in hole that ♂ has been spending so much time in over the last year.

10 April

10:25 - Walt checked nest. Found 5 eggs.

MURF

~~① 26.7 x 20.4, ② 26.2 x 20.3. Fresh. Very early incubation. Set ambush to catch unbanded bird later, during nestling stage.~~

1 MAY

11:10 - Checked nest for hatching - No eggs - failed or wrong nest (Ask Walt for location). [I did check the correct nest - it failed.

11 Aug

[Banded 2 nestlings]

98 HAYDOCK

99

MELANERPES FORMICIVORUS

CV2

HNHR

MAY 3 16:00 8 eggs. Mid-to-late incubation @ 25.5×20.3

MAY 29 14:00- 6 babies banded, including bird #3000
ID's 3000-3005. plenty of acorns
remaining.

1999

20 April 11:20- Bird may have been in upper
hole in tree with many holes.

19 MAY 11:10- 7 eggs in new hole. Same tree as
last year, but a higher hole on inside branch
hole faces towards center of tree

28 MAY 8:00- Nest empty - Some grass inside hole
suggesting that a Starling is starting to
use hole now.

1 July 7:30- Banded 4 nestlings with Walt.
Plenty of acorns remaining.

98 J. HAYDOCK
99
2000

MELANERPES FORMICIVORUS

STROMBERG

HASTINGS

16 MAY 16:45 - Moved baby ID 2973 from cavity to here. Cavity baby have a Red-L-blue band on its right leg. 3 other healthy babies (slightly larger) in nest.

29 MAY 12:30 - Banded 4 babies (3 of theirs + cavity's). #'s 2997-2999 + 2973(cavity)
1999

27 April 13:45 -
4 eggs 25.5 X 18.8 egg - incubated? (early)

5 MAY 13:01 - 5 eggs now - So last egg Date is 28 April

12 MAY 16:30 - 4 babies, no eggs; largest body 23g

2000

2 April 12:25 - No birds seen; no evidence of a nest.

97 HAYDOCK

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2000

MEANERPES FORMICIVORUS

WESTGATE

HNHR

6 MAY

15:30 - Banded and bled 6 healthy babies with Walt and Denise #'s 2768 - 2773

8 July

11:10 - Banded and bled 2 babies w/ Walt.

1998

4 June

13:50 - Banded and bled 3 healthy babies with Walt, Nick and Latoria. Some acorns remaining.

1999

13 May

13:30 - Joey climbed tree, opened new hole, ~~and~~ found eggs, early^{mid} incubation; 4 eggs - 25.8 x 19.0

21 May

13:26 - Babies hatched 24g - all four hatched ~ ~~2-4~~ 6 days old!! (hatched on 15th Band on June 5th.

2000

7 April

12:25 - 2 birds seen in traditional nest/granary tree. No bird seen in a hole - New hole facing towards road/strombergs. located opposite side of trunk from last years nest hole.

1. The first part of the document is a list of names and addresses, which are arranged in a table-like format. The names are listed in the first column, and the addresses are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The addresses are: 123 Main St, 456 Elm St, and 789 Oak St.

99 HAYDOCK
2000

MELANERPES FORMICIVORUS

GATE

HASTINGS

19 MAY

12:30. Walt checks new hole in sycamore, Finds 3 eggs

① 25.9 x 20.1 Fresh.

20 MAY

13:40 - 5 eggs now!! So there are co breeding ♀'s in this group. Walt marked the 5 eggs - In case they lay additional eggs - to have eggs to take for looking at hormone levels. Took 1 of the 5 eggs for the same purpose.

31 May

13:45 - 8 eggs total, one is hatching

3 June

11:00 - 7 babies. Took the two smallest - both of which were about to die. (3097 + 3098)

20 June

Hole #266 had 5 startling ^(blue) eggs (cold) - removed eggs. #263 has some startling nest material (removed it).

Banded 5 nestlings #3124 → 3128. Some acorns remaining (not very many)

2000

7 April

12:10 - ~~3~~ 3 birds seen in traditional rest tree, but none seen in a hole. A few stores of acorns in top of tree.

1 MAY

10:00 - Checked for hatching. Found 8 nestlings + 1 egg. 1 nestling dead, another almost dead (removed both). Also removed egg - Took DNA from all 3 (2 nestlings + egg). Embryo several days from hatching, but alive. 6 nestlings in nest range from 9.5 to 23 grams (hatched on the 24th!! (check Walt's notes for LEP date)

1. The first part of the document is a list of names and addresses of the members of the committee.

98 HAYDOCK
99
2000

MELANERPES FORMICIVORUS

PIPELINE

HASTINGS

7 MAY

15:00 - Bird flew from hole in granary tree.

5 eggs. Near hatching.

18 MAY

Walt checked for hatching. (3?)

1 JUNE

12:10 Banded 3 healthy babies with
Walt # 3012-3014. Some acorns
remaining.

1999

27 April

13:20 - 4 eggs - Early incubation -

① 25.7 x 19.3

30 April

11:05 - 5 eggs - So L~~E~~D is 28 April (?)

13 MAY

14:00 - 4 babies; largest 29g 1 egg
remaining - laid late? L~~E~~D according
to nestling weight is 25 April

2000

7 April

12:08. No birds seen; no evidence of a nest. Plenty
of acorns remaining, but upper portion of granary
fell sometime during the winter. Fallen piece of
granary has some acorns. Fallen piece includes
2 former nest/rest holes.

26 April

15:00. 4 babies - largest 17g. Hatched 22 April.

1 egg - infertile - removed.

15 MAY

18:30 - Banded & bled 4 happy healthy nestlings
in the light rain shower with Walt.

98 HAYDOCK

99
2000

MELANERPES FORMICIVORUS

ROAD 1

HASTINGS

MAY 7th 19:45 - Nobody seen in a hole.

MAY 18 13:00 - One bird seen in granary. Some
acorns remaining. No birds seen in a hole.

1999

April 30 10:30 - There seems to be a bit of a power
struggle in progress. Not extremely active, however.
No evidence of a nest.

23 June 9:20 - Bird in hole. In dead leaning sycamore
tree they nested in a couple of years ago.

7 July 21:00 - Caught 2 unbanded juveniles and HM 2451
in ambush. Juveniles from missed nest in
Valley oak along Creek.

2000

7 April 11:40 - No birds seen.

2001

22 June 11:00 - Checked nest - 4 babies ~ 4 days old
No eggs remaining

98 J. HAYDOCK
 99
 2000

MELANERPES FORMICIVORUS

SCHOOL HILL

HASTINGS

26 MAY

15:30 Transplanted 3 babies from L HAY to here #2979-2981.

9 JUNE

14:30 - Band 4 babies, all healthy the 1 bird belonging to Thom #3029 a little smaller. Some acorns remaining.

1999

19 April

9:15 - No birds seen, no evidence of a nest
 Plenty of acorns.

2000

2 April

11:00 - No birds seen; no evidence of a nest observed.
 plenty of acorns.

18 April

9:50 - Power struggle in progress with about 20 birds.

~~green~~ ~~green~~ L-green / D-green =
 ♀ m / D-blue m / D-blue
 ♂ unv ♂
 ? ~~L-blue / m~~ =
 ? ~~L-green / orange~~
 ? ~~Blue + black-white (n)~~ =
 ♀ ~~L-green / m~~
 ♀ ? / ?
 ♀ m / black
 ? ? / ?
 ? orange / m
 ♀ L-Blue / m
 ? / ?
 m / green-white (n)
 ? / ?
 yellow / m
 ? / ?

98 MAYDOCK

99

2000

MENNERPES FORMICIVORUS

SCHOOL HILL WEST

HASTINGS

8 JUNE 14:00 - Still no sign of a nest for this group.

1999

19 April 9:40 - No birds seen. No evidence of a nest
No acorns.

2000

7 April 11:15 - No birds seen. Some acorns - granary about
 $\frac{1}{3}$ full.

18 April 9:34 - Bird in ~~traditional nest hole~~. Left as I
approached. 18 inches above traditional hole.

20 April 13:20 5 eggs incubated. (1) 24.7 x 19.0

25 April 9:20 still 5 eggs.

2 MAY 9:40 - 2 babies 18 & 19g. Some egg shells,
but no eggs remaining.

19 MAY 10:30 Banded 2 nestlings with Erica. A few
acorns remaining.

98 HAYDOCK

99
2000

MELANERPES FORMICIVORUS

Black Oak

HNR

22 Apr 13:03 - No birds seen, but still a finch effect group.

27 MAY 13:00 - Banded 4 babies with Walt.

#'s 2983-2986. Plenty of acorns remaining.

~ 30 Oct 12:00 - A few acorns remaining from last year.

8 Nov 1:35 - Granary most full with new acorns

1999

14 April 7:00 - No birds seen in hole; no sign of resting.

23 April 9:50 - No evidence of nesting. Some acorns, but mostly old remaining shells from prior year.

29 April 10:00 - No evidence of a nest, No birds seen

22 MAY 14:50 - Bird in hole; Same hole as last year.

24 May 17:00 - 3 eggs in hole - early incubation
26.1 x 19.35

1 June 10:00 - 3 babies - about 10g-12g - 2 days old.

2000

30 MARCH 16:00 - Plenty of acorns remaining, but scattered about in granary tree and rest tree. No evidence of a nest. No birds seen.

12 April 12:10 - No birds seen in a hole. 2 birds in traditional nest tree

29 April - 18:20 - Checked traditional (last years) cavity - empty
(Walt saw bird in this hole yesterday)

98 J. HAYDOCK

99
2000

MELANERPES FORMICIVORUS

Phantom of Black Oak

FINHR

22 Apr

13:10 - No birds seen.

11 JUN

14:30 - Still no evidence of a nest yet for those birds, but they still have acorns

3 Oct

12:00. No acorns remaining; no new acorns.

8 Nov.

1:40 - Granary(s) about $\frac{1}{2}$ full with new acorns

1999

~~14 April~~

12 March

6:15 - Caught unbanded ♂ 2nd year adult #3064

14 April

6:00 Caught 2910 - from A1 - replacement breeder?

24 April

10:00 No evidence of a nest. A few acorns.

29 April

10:05 No evidence of a nest. No birds seen

22 MAY

14:45 - Bird in hole - Under side of oak limb in (Black?) oak on SE side of territory

24 May

16:30 - checked hole - no eggs

2000

30 MARCH

16:55 - No birds seen; no evidence of a nest. Plenty of acorns remaining; mostly in Black Oak to west of dead granary tree.

12 April

12:05 - Bird in hole. Black Oak above granary. Opened hole that faces Black Oak.

13 April

11:02. Walt checks cavity and finds 3 eggs Incubated.

① 24.3 x 19.7 ② 24.1 x 19.9. Set ambush for NOB(s)

98 HAYDOCK

99

MELANERPES FORMICIVORUS

ARNOLD 1

HNHR

JUNE 11

13:30 - Bird in a new hole! Finally, they probably have a nest. Hole is high up in V. oak behind granary tree (from road) and faces road.

JUNE 12

14:00 - Yes they have a nest. Walt opened hole to find 2 babies ready to fledge. A third fledgling, fledged as Walt was climbing tree. Banded the two babies that remained in the nest, but now there is an unbanded fledgling that is very unhappy and flying about without bands.

3 Oct

12:00 - Some acorns from last year, plus ~~new~~ a few new acorns from this year.

8 Nov

13:42 Granary a little less than $\frac{1}{2}$ full.

1999

24 Apr

10:35 - Bird in hole!! - Some acorn stores. Same hole as last years nest. Walt climbed tree and checked. Finds 4 eggs. 1 of 4 is a runt egg!! (Only 1 ♀ breeder in group)
Early incubation ① 25.0 x 18.2
② 25.1 x 18.2 ③ (Runt) 18.3 x 14.5
Placed tag # 284 at nest hole - took nest measurements.

8 May

11:00 - 3 babies hatched this morning. Still runt egg & 4 more unhatched.

99 HAYDOCK
2000
2001

MELANERPES FORMICIVORUS

ARNOLD I

HNHR

30 June 7:10 - Still a few acorns remaining in granary.
No evidence of a second nest

9 July 13:20 - No evidence of a second nest. Still a few acorns remaining

2000

30 MARCH 15:05 - No birds seen. No evidence of a nest. Very few acorns in granary.

12 April 12:20 - No birds seen.

28 April 13:30 - Walt checked nest cavity (same as previous few years). Hole # is 284. ϕ 24.5 x 17.9
3 eggs (fresh). Could still be laying. Check again

5 MAY 9:50 Walt checked nest again - 5 eggs
So last egg date is 30 April.

16 MAY 15:10 - Walt checked nest for hatching
Finds 3 babies, 1 egg (under red) last egg/
nestling gone.

2001

9 July 10:00 - Banded 3 healthy nestlings. Some acorns remaining.

98 J. HAYDOCK

99

2000

MELANERPES FORMICIVORUS

KEEP OUT

- 22 April 13:30 - Lots of acorns; no birds seen.
15 MAY 14:10 - No birds seen
11 JUNE 13:40 Several birds seen flying about, but nobody seen in a hole.
21 JUNE 14:00 - Still no sign of a nest.
3 Oct 12:00 - Plenty of acorns from last year, plus a good number of new acorns.
8 Nov 13:50 - Granary about 3/4 full.

1999

- 24 April 10:25 - Plenty of acorns; no evidence of a nest.
29 April 10:40 - No evidence of a nest; heard birds on NW side of territory. Found some fairly nice new holes in V. oak on Hastings near parking area.
30 June 7:20 - Plenty of acorns remaining. No evidence of a second nest.

2000

- 30 MARCH 15:09 - First time I have been here since granary was cut down. They do have a few acorns in H. oaks on Hastings side of territory. A few storage holes that are empty on KEEP OUT side of territory. (Snag to South of old granary & Oak to West of old granary.

2000 J. HAYDOCK

2001

MELANERPES FORMICIVORES

KEEP OUT

HASTINGS

3 April

8:50 - No birds seen. No acorns -

~~2 MAY 29~~
April

18:50 - Several birds roosting in snag to south of granary (flushed when I checked).

2 MAY

12:20 - No evidence of a nest.

5 MAY

9:30 - No birds seen, no evidence of a nest.

"

10:05 - Two birds flew from hole (s?) in snag to South of granary. Not sure if both birds flew from the same hole.

4 eggs 1 of which is a runt egg

① 26.25 x 20.7 ② 20.1 x 16.25 (runt egg)

③ 27.1 x 21.0 - fresh, not incubating

8 MAY

16:00 - Still just 4 eggs total including the runt egg. Eggs warm.

2001

1 JUNE

7:00 - Opened new hole and banded 3 nestlings that were about 25 days old. Hole is located in Valley oak on Hastings property, ~~3rd tree~~ and is the 3rd Oak going up the hill towards UNZ. 3rd hole up on branch.

12 July

9:00 Banded 2 nestlings - both healthy.

1 ~~dead~~ dead nestling in nest that died within the past 2 days. Some acorns remaining.

98 J. HAYDOCK
99
2000

MELANERPES FORMICIVORUS

ARNOLD SHWARTZ

HNHR

- 22 Apr 13:40 - Lots of acorns; no birds seen.
15 MAY 14:25 - No birds seen.
11 JUNE 14:00 - No birds seen.
21 JUNE 14:20 - Still no sign of a nest.
3 Oct 12:00 - A few old acorns remaining
8 Nov 13:50 - Granary about half full.

1999

- 24 April 10:25 - A few acorns; no evidence of a nest.
29 April 10:30 - No evidence of a nest. Found some holes that I did not know about in tree to SE of pond - (some look like they would be ok for a nest) - Also heard birds in this area. Saw NOBA in granary tree
30 June 7:30 - Still no evidence of a nest. No acorns remaining in granary

2000

- 30 March 15:15 - Heard several birds while I was in the keep out territory. Could have been ARSW, or possibly Lambert. No acorns in main granary. Also checked other small granaries in territory and found no acorns.
3 April 8:50 - Power struggle - Probably a result of CAMPER Vacancy - At least 6 birds involved
12 April 11:20 - Several birds around - but no bird seen in hole.

98 HAYDOCK

99

2000

MELANERPES FORMICIVORUS

LAMBERT

HINHR

22 Apr

13:40 - Very few acorns remaining; no birds seen.

15 MAY

14:30 - No birds seen.

11 JUNE

14:50 - No birds seen.

20 JUNE

14:40 - Still no sign of a nest.

3 Oct

12:00 - Bird seen leaving roost tree. No acorns remaining; no new acorns.

8 Nov

13:55 - Heard some birds. Granary about $\frac{1}{2}$ full with new acorns.

1999

24 April

10:30 - ~~A few acorns, not a lot.~~ No evidence of a nest. No acorns in fallen granary or in roost tree granary along fence.

29 April
~~29 April~~

10:40 - No evidence of a nest; saw a couple of birds near granary tree

30 June

7:25 - No birds seen or heard. No acorns remaining.

2000

30 MARCH

15:25 - No birds seen; ^{A few} ~~the~~ acorns in granary (Lowerside)

3 April

9:55 - Power struggle in progress w/ about 6 birds. See Arnold Schwartz for notes and ~~steps~~

Carroll's notes

(Six?) $\frac{?}{4/4}$ = [3073] [♂] keep

♀ $\frac{1}{m/manure}$ = [2561?]

♀? $\frac{Dblue\ black}{Dblue\ black}$ =

$\frac{m}{m/Pink\ blue}$ =

2000 HAYDOCK

MELANERPES FORMICIVORUS

LAMBERT

HASTINGS

3 April

Observation of power struggle continued

♂ Y/Y = 3073 (keep out)

~~Lgreen/Lpink~~
♀ Lgreen/Lgreen Lpink =

♀ white-red/m m/Red = ? 3073
? 1?

♀ m/(Maure or Red) = ? [2561] (ARSW)

- Power struggle centered around ARW granary

♂

Yellow/Yellow-Black

3073? (keep out)

?

White-Yellow/Red-Black

♀

Red-LBlue/LBlue Red
M Red

probably 2561 ♀ (ARSW)
← right or left leg?
(changing upside down)

12 April

11:25 - Several birds around. Power struggle not completely resolved?

2 MAY

12:35 - No evidence of a nest.

5 MAY

9:40 - No birds seen. Noted that there are some acorns stored in 2 fence posts located above nest/granary tree.

16 MAY

15:30 - Bird in hole - Same hole used for nest when ARW film was made

23 MAY

1:00 - checked cavity - empty. Not in real good shape for nest (bottom uneven)

98 J. HAYDOCK

99

MELANERPES FORMICIVORUS

FANNY ARNOLD

HINNYR

22 APR

13:35. Lots of acorns, no birds seen.

4 MAY

11:20 - Walts checks nest. lower hole in traditional nest tree. Bird was in hole a bit earlier. Finds 5 plus 1 runt egg! Incubated; ① 26.6 x 20.2 ② ^{RUNT} 21.5 x 15.8

Lots of acorns remaining. Some in nest tree; others remaining in granary.

27 MAY

14:45. Banded 4 babies #'s 2993-2996 with Walts. Plenty of acorns remaining.

3 Oct

12:00. A few acorns from last year; lots of new holes (or re-worked)

8 Nov

14:05 - Granary nearly full.

1999

24 April

10:15 - Lots of acorns; no evidence of a nest.

29 April

10:25 - No evidence of a nest. No birds seen

7 MAY

9:00 - Bird in traditional nest hole. Checked and found only a mouse with its nest (no baby mice) Removed mouse nest materials. Mouse ran off.

LA2

30 June

8:00 - Still some acorns remaining. No evidence of a second nest.

2000 HAYDOCK

MELANERPES FORMICIVORUS

FANNY ARNOLD

LINHR2

30 MARCH 15:35 - Lots of acorns in granary. No birds or evidence of nest seen.

12 April 11:45 Bird in hole. Unopened hole in traditional nest tree located on same trunk as other opened holes. Same height as lowest opened hole, but 60° clockwise (looking up) around trunk.

2 MAY 11:30 - checked for birds in cavities - No evidence of a nest.

5 MAY 10:00 - Walt checked nest (hole opened on 12 April)
5 eggs - 1 of which is a runt egg. Fairly fresh (~3 days into incubation).

① 21.2 x 17.0 (runt egg) ② 26.9 x 20.4

③ ~~26.1~~ 26.1 x 19.7. New hole # 1147

16 MAY 14:15 - Walt checked nest. Found 4 nestlings. 3-4d old runt egg is gone.

1 JUNE 14:45 - Banded 4 nestlings with Walt.

6 JULY 13:50 - Banded the 3 nestlings with Erica. Plenty of acorns ~~with~~ remaining.

98 J. HAYDOCK

99

MELANERPES FORMICIVORUS

UAZ

FINHR

22 Apr

13:25 - Lots of acorns, but no birds seen.

4 MAY

10:30 - Walt checked nest hole from last year.

Bird left hole as we approached with the ladder.

Finds 5 eggs; fairly fresh ① 24.1 x 18.7

② 25.0 x 20.0. Walt took one egg for analysis.

27 MAY

14:30 - Banded 3 healthy nestlings with Walt. # 2990-2992. Some acorns remaining.

20 JUNE

14:00 - checked for 2nd nest - No birds seen in hole.

3 Oct

12:00 - Perhaps a few good acorns, but basically only shells remaining

8 Nov

14:10 - Holes in nest tree all have acorns; Granary tree about 1/3 full.

1999

24 April

10:05 - Plenty of acorns; no evidence of a nest

29 April

10:20 - No evidence of a nest

8 June

13:53 - 4 eggs - mid-incubation

① 24.15 x 18.7

* 7 MAY
see
FAAR

Nesting in new hole, facing north down hill from granary

16 June

11:00 - 1 baby - hatched today and 3 eggs.

[nest failed several days later.]

30 June

8:00 - No evidence of another nest. Plenty of acorns remaining

* forgot to write notes *

2000 HAYDOCK

Zoo 1

MELANERPES FORMICIVORUS

UPPER ARNOLD 2

HNHR

30 MARCH 15:40 - Lots of acorns in granary; some in nest tree. No evidence of a nest.

12 April 11:55 - No birds seen in a hole

2 MAY 11:50 - No bird(s) seen in a hole

16 MAY 15:30 - Bird in ~~nest~~ nest hole in main nesting tree located directly below feeding platform.

Zoo 1

6 JUNE 10:30 - Bird in hole in tree below granary - Same hole as first nest this year. 5 fresh eggs.

30 JUNE 7:30 - As it turns out the above hole in which a bird was seen on 6 June is another group! LA23 - Female* from LA2 joined unbanded male breeder. #3538. There is also a nest in LA2's traditional nest tree (located towards FAAR from granary). ~~LA23 has~~ LA2 has two birds (Breeder male from A1 #1212?) and an unbanded female. I caught the unbanded female today at the nest. I also banded the two nestlings, which I estimate were about 18 days old. Adult ♀ is #3562. Nestlings are #'s 3563 and 3564.

MELANERPES FORMICIVORUSLAZ.FINHIR22 APR

13:20 - Lots of acorns no birds seen.

4 MAY

10:14. Walt checked nest. Bird in hole when we arrived. Same nest hole as last year (facing down canyon, main tree with holes). Finds 5 eggs; well incubated; ① 27.0 x 20.8 ② 26.5 x 20.5

10 MAY8:00 - 4 babies; no eggs. (11.7g); one smaller (about 7g); Set ambush to catch breeding ♀ (for power struggle-filming). Unsuccessful - Ambush knocked down twice by birds. Breeding ♀ never near hole; All babies very cold after not being brooded for $4\frac{1}{2}$ hours. Dropped one baby as I was taking it from nest. (died) The others, I warmed up somewhat and put them back.15 MAY

14:42. Nest failed. No babies left.

27 MAY

14:00 - New nest! 5 eggs - prob incubated ~ 2 days. New hole that needs to be opened. Walt checked with peeper.

11 JUNE

14:20 - Put wire blind up for capture of unbanded bird (Not sure if bird is still in grasp - need to do nest watch) Saw bird looking out of nest hole. So it must still have babies.

17 JUNE

9:30 - Banded ♂ Helper #3034

21 JUNE

14:30 - Banded ♂ Helper #3038. Both 3034 and 3038 are likely from missed fall nest.

22 JUNE

11:00 - Banded 3 babies 3039-3041. Acorns remaining

98 HAYDOCK

99

MELANERPES FORMICIVORUS

LAZ

HASTINGS

3 Oct 12:00 ~~Plenty of acorns remaining.~~

8 Nov 14:05 - Granary down. A few acorns in
roost tree holes

1999

24 April 10:10 - A few acorns in new granary tree
along fence. No evidence of a nest

29 April 10:15 - Bird in hole. Same tree as last
years roost, but in hole ~4 feet above
hole used last year (I think they used
this hole in 1997 first?)

30 April 14:30 - Walt climbs to check nest. Finds 4 eggs
All normal. Incubated. ① 27.7 x 19.5
② 25.1 x 19.3

7 MAY 9:10 - 4 babies - all healthy and about 3 days old

30 June 8:00 - Still some acorns remaining. No evidence
of a second nest.

2000 HAYDOCK

2001

MELANERPES FORMICIVORUS

LOWER ARNOLD 2

HNHR

30 MARCH

15:45 - LAZ has done a good job over the last couple of years creating a respectable new granary after have lost their old huge granary. About 90% of available holes are filled with an acorn. No birds or evidence of a nest seen.

12 April

11:58 - Bird in hole. Lower opened hole in traditional nest tree

2 MAY

12:10 - Checked for hatching - 4 healthy babies about 3-4 days old.

2001

10 JUNE

17:30 - check nest. 3 eggs (marked 1, 2, 3 by WDK)

26 June

15:40 - checked nest - 4 nestlings about 5 days old. One nestling is about $\frac{1}{2}$ as big as the rest of the nestlings.

12 July

11:00 - Banded 4 nestlings - so the small one survived, but it is still much smaller than his/her nestmates. (but healthy). Plenty of acorns remaining.

99 J. HAYDOCK

99

MELANERPES FORMICIVORUS

BIANCA

HNAH

- 22 APRIL 13:30 - No birds seen in a hole.
- 4 MAY 9:50 - Walt checked nest hole from last year. Finds 5 eggs, incubated ① 27.5 x 18.0
Some acorns remaining in this nest tree (their new granary tree). 1 of the 5 eggs somewhat smaller; A runt egg?; Not developing; 21.3 x 14.3
- 15 MAY 14:50 - Bird in hole. Walt checked hole.
Finds 3 babies, about 8 days old. (eyes not open yet)
- 23 MAY 13:40 - Banded 3 healthy babies with Walt #s 2987-2989. A few acorn remaining
- 3 Oct 12:00 - No acorns remaining.
- 8 Nov 14:15 - Granary in this year's nest tree about 1/2 full with acorns; no acorns in old granary tree.

1999

- 24 April 10:00 - Some acorns in tree on ridge on LA2 side of territory. No evidence of a nest.
- 29 April 10:10 - Bird in hole. Same cavity as last years nest.
- 30 April 14:50 - Walt climbs and checks nest. Finds 4 eggs - Tag #288 ① 26.8 x 19.0 ② 27.0 x 18.6
Incubated, but not late incubation.
- 7 MAY 9:20 - 3 babies and 1 egg (look like it could hatch)
(largest baby 6.5 grams. hatched last night?)

99 HAYDOX

2000

2001

MELANERPES FORMICIVORUS

BIANCA

HASTINGS

8 MAY

11:20 - 4 babies now - the 4th is much smaller (probably hatched yesterday afternoon?). I doubt it will make it to fledge.

27 MAY

12:10 - 4 babies banded - The 4th made it - but was fairly small. Some acorns remaining.

30 June

8:10 - No evidence of a nest. Some acorns remaining.

2000

30 MARCH

15:50 - Some acorns in granary (75% of holes).
No birds seen, no evidence of a nest.

12 April

12:00 - Bird probably in hole - unopened hole about 2 feet below last year's nest hole.

2 MAY

12:30 - No birds seen in a hole

16 MAY

15:40 - 2 nestlings about 5 days old.

2001

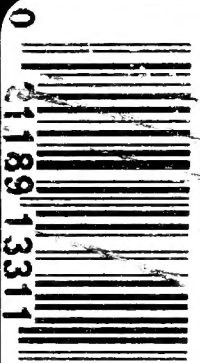
10 JUNE

17:00 - Reopened old hole in valley
Oak on Black oak side of territory.
Walt had seen bird in hole on JUNE 9th.
Bird was in hole today as well; however hole was empty.

8 July

9:00 - Banded 3 healthy nestlings
Some acorns still remaining.

EB-9P
MAROON



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